

Reexamination and allowance are respectfully requested.

SPECIFICATION

The Specification is amended as follows:

The Cross Reference to Related Application section is amended to correct the Application Serial number and to make editorial changes.

The Brief Description of the Drawings section is amended to delete references to FIGS. 5 and 6 and to renumber FIGS. 7 and 8.

The Detailed Description of the Preferred Embodiment is amended to delete two paragraphs on pages 4 and 5.

Two paragraphs on pages 6 and 7 were previously amended to correct the FIG. numbers from FIGS. 7 and 8 to FIGS. 5 and 6, respectively. All of the above discussed changes were part of the Amendment of October 3, 2005, but not all were transmitted with that Amendment.

CLAIMS

The claims are restated with the previously restricted claims 14-30 having been cancelled.

In view of all of the foregoing, it is respectfully submitted that the pending claims 1-13 are allowable as amended and in the present application.

Reexamination and allowance are respectfully requested.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case. If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at the Los Angeles, California area telephone number (661) 702-6814 to discuss the steps necessary for placing the application in condition for allowance.

///

///

///

///

///

Respectfully submitted,

2/8/06

Date

LSM

Gary Schnittgrund
Attorney for Applicant
Reg. No. 42,130

The Alfred E. Mann Foundation for Scientific Research
PO Box 905
Valencia, California 91380-9005
(661) 702-6814
(661) 702-6710 (fax)

Amendments to the Specification:

Please replace the CROSS REFERENCE TO RELATED APPLICATION section with the following:

This application is related to but in no way dependent on commonly assigned U.S. Patent Applications: Manufacturing Method for a Ceramic to Metal Seal, Application Serial No. ~~10/714913~~10/714,193; Layered Sphere Braze Material, Application Serial No. 10/793,457; Particulate Braze Material, Application Serial No. 10/793006; and Brazing Titanium to Stainless Steel Using Nickel Filler Material, Application Serial Number 10/793,536, all incorporated in their entirety herein by reference.

Please amend the BRIEF DESCRIPTION OF THE DRAWINGS section on page 1 of the specification as follows:

FIG. 1 illustrates a side view of the component assembly with filler material as a foil between the stainless steel part and the titanium part.

FIG. 2 schematically depicts the bonding steps of the present invention.

FIG. 3 presents an isometric view of a titanium-nickel laminated filler material having three foil layers.

FIG. 4 presents an isometric view of a titanium-nickel laminated filler material having five foil layers.

~~**FIG. 5** illustrates the compact filler material comprised of discrete particles of titanium and nickel.~~

~~**FIG. 6** presents a cross-sectional view of a discrete particle of nickel and titanium layers.~~

~~**FIG. 7**~~**5** presents an exploded isometric view of a ceramic tube, titanium part, and stainless part.

~~**FIG. 8**~~**6** illustrates a bonded device with a crimp attached wire.

Please delete the last paragraph from page 4 and the first paragraph from page 5

of the DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT as follows:

~~In a further alternate embodiment, a compact filler material 8', FIG. 5, is comprised of a bonded compact of primary alloy particulate 16 and secondary alloy particulate 16', where primary alloy particulate 16 is preferably comprised of a nickel alloy and primary alloy particulate 16' is preferably comprised of a titanium alloy. The compact filler material 8' is formed by any of several techniques that are known to one skilled in the art, including cold pressing, warm pressing, slurry preparation, etc. The intimate mixture of primary alloy particulate 16 and secondary alloy particulate 16' bond together as well as react with the stainless steel part 6 and the titanium part 4 during the braze operation to yield a bonded component assembly 2.~~

~~Yet another alternate embodiment of forming a bonded component assembly 2 utilizes the compact filler material 8', as presented in FIG. 5, that is comprised of layered discrete particle 19, preferably spheres, comprised of layered or laminated composition, as shown in FIG. 6. In a preferred embodiment, layered discrete particle 19 is comprised of alternating layers of primary particle laminate layer 18 and secondary particle laminate layer 40, where primary particle laminate layer 18 is preferably comprised of nickel and secondary particle laminate layer 40 is comprised of titanium. The overall bonding methods and processes are analogous to those employed for the several embodiments.~~